

Appl. No. 10/679,348
Examiner: LEE, EDMUND H, Art Unit 1732
In response to the Office Action dated March 24, 2006

Date: June 24, 2006
Attorney Docket No. 10116631

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (Currently amended): A color filter manufacturing method ~~for a plastic substrate,~~
comprising the steps of:

providing a ~~plastic~~ substrate with an extrusion method, the substrate having a plurality of ~~has~~
~~multiple grooves with at least one surface containing photo-resists;~~

filling a plurality of the primary colors of red R, green G, blue B into the grooves of the groove-
~~of the plastic~~ substrate by jetting to form the primary colors of R, G, B;

jetting the a black photo-resist liquids liquid to the substrate by the inkjet printing method and
forming a black photo-resist thereon; and

covering a plane passivation layer on the top surface of the ~~plastic~~ substrate.

Claim 2 (Currently amended): The color filter manufacturing method according to claim 1,
wherein the a surface area of the ~~plastic~~ substrate around the groove ~~can be~~ is a smooth
surface.

Claim 3 (Currently amended): The color filter manufacturing method according to claim 1,
wherein the a surface area of the ~~plastic~~ substrate around the groove ~~can be~~ is a rough surface.

Claim 4 (Currently amended): The color filter manufacturing method according to claim 1,
wherein the black photo-resist is formed on the surface of the ~~plastic~~ substrate ~~apart~~ separated
from the ~~space of R, G, B color filtering layers~~ ~~photo-resists~~.

Claim 5 (Currently amended): The color filter manufacturing method according to claim 1,
wherein the black photo-resist is formed ~~on the~~ in a plurality of pre-set groove grooves of the
~~bottom plastic substrate. The position of the groove and the groove of R, G, B photo-resists are~~
~~staggered. and the pre-set grooves are staggered to the R, G, B color filtering layers.~~

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Claim 6 (Currently amended): The color filter manufacturing method according to claim 1, wherein the each groove with R, G, and B photo-resists is with containing the R, G, or B color filtering layer comprises a plane surface.

Claim 7 (Currently amended): The color filter manufacturing method according to claim 1, wherein the each groove with R, G, and B photo-resists is with containing the R, G, or B color filtering layer comprises a lumpy surface.

Claims 8-10 (Canceled)